

(b) one or more DNA sequences which code for peptides or polypeptides which are heterologous in relation to the non-human adenovirus, in operative linkage to expression control sequences.

2. (previously amended) The method of claim 1, wherein the adenovirus is a non-human species selected from mammals and birds.

3. (previously amended) The method of claim 2, wherein the adenovirus is an ovine or bovine adenovirus.

4. (previously amended) The method of claim 2, wherein the adenovirus is an ovine or bovine mastadenovirus or atadenovirus.

5. (previously amended) The method of claim 1, wherein the adenovirus is the OAV isolate 287.

6. (previously amended) The method of any of claims 1 to 5, wherein the cell is a human cell.

7. (previously amended) The method of any of claims 1 to 5, wherein the cell is a human skeletal muscle cell.

8. (previously amended) The method of claim 7 wherein the human muscle cell is selected from myocytes/myotubes/myofibers, fibroblasts, dendritic cells, endothelial cells and combinations thereof.

9. (currently amended) The method of any of claims 1 to 5 or 8 wherein the administration step is repeated at least once.

10. (previously amended) A method for transferring genetic material into a cell for the production of recombinant protein in cell culture, comprising administering to the cell a recombinant genetic material comprising

(a) DNA sequences of a non-human adenovirus which code for at least a viral protein coat and

(b) one or more DNA sequences which code for peptides or poly peptides which are heterologous in relation to the non-human adenovirus, in operative linkage to expression control sequences.

11. (previously added) The method of claim 10, wherein the adenovirus is a non-human species selected from mammals and birds.

12. (previously added) The method of claim 11, wherein the adenovirus is an ovine or bovine adenovirus.

13. (previously added) The method of claim 11, wherein the adenovirus is an ovine or bovine mastadenovirus or atadenovirus.

14. (previously added) The method of claim 10, wherein the adenovirus is the OAV isolate 287.

15. (previously added) The method of any of claims 10 to 14, wherein the cell is a human cell.

16. (previously added) The method of any of claims 10 to 14, wherein the cell is a human skeletal muscle cell.

17. (previously added) The method of claim 16, wherein the human muscle cell is selected from myocytes/myotubes/myofibers, fibroblasts, dendritic cells, endothelial cells and combinations thereof.